

CLMPTO10/7/04 JW

Cancel Claims 1-29,31-52,54-90 and 92-116

Add New Claims 117-199

--117. A method for presenting targeted advertisements to a selected system, the method comprising:

forming a group for the reception of signals for the selected system;

forming a plurality of subgroups for the group;

assigning a subgroup address to each subgroup;

receiving a program stream;

selecting one or more targeted advertisements for a first subgroup;

assigning an advertisement identifier to each of the targeted advertisements;

creating a relationship between the subgroup address and the one or more advertising identifiers; and

transmitting the program stream and the targeted advertisements selected for the first subgroup to the first subgroup.

118. The method of claim 117, further comprising:

selecting one or more targeted advertisements for a second subgroup; and

transmitting the program stream and the advertisements selected for the second subgroup to the second subgroup.

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119. The method of claim 118, wherein said transmitting to the first subgroup and said transmitting to the second subgroup are performed simultaneously.

120. The method of claim 117, wherein the subgroups are formed by using multicast addresses.

121. A method for presenting targeted advertisements in a television system, the method comprising:

forming a group for the reception of signals for the television system;

forming a plurality of subgroups for the group, wherein the subgroups are formed by using multicast addresses (are) based on Internet multicasting protocols;

receiving a program stream;

selecting one or more targeted advertisements for a first subgroup; and

transmitting the program stream and the targeted advertisements selected for the first subgroup to the first subgroup.

122. The method of claim 117, wherein the subgroups are based on cable nodes.

123. The method of claim 117, wherein the subgroups are formed by transmitting an MPEG signal over a cable television network.

124. The method of claim 117, wherein the subgroups are based on demographic attributes.

125. The method of claim 117, wherein the subgroups are based on geographic attributes.

126. The method of claim 117, wherein the subgroups are based on product and brand usage attributes.

127. The method of claim 117, wherein said transmitting includes analyzing the program stream and the selected target advertisements at a centralized point to create a presentation stream.

128. The method of claim 127, wherein said multiplexing is performed in real-time.

129. The method of claim 127, wherein the selected target advertisements are stored temporarily in a storage for insertion at a later time.

130. The method of claim 127, wherein the program stream comprises one or more empty segments and during multiplexing the selected targeted advertisements are inserted in the empty segments.

131. The method of claim 127, wherein the program stream comprises one or more default advertisements and during multiplexing the default advertisements are substituted with the selected targeted advertisements.

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132. The method of claim 117, further comprising inserting the selected targeted advertisements to the program stream at a client side.

133. The method of claim 132, wherein the client side is provided with the insertion time and the identification of the selected targeted advertisements.

134. The method of claim 132, wherein the program stream comprises one or more empty segments and the identification of these empty segments is transmitted to the client side.

135. The method of claim 132, wherein the program stream comprises one or more default advertisements, and at the client side, the default advertisements are substituted with the selected targeted advertisements.

136. The method of claim 117, wherein  $n$  program streams are combined with  $m$  advertisement streams resulting in  $p$  presentation streams, wherein  $p$  is greater than  $n$ .

137. The method of claim 117, wherein the program stream is transmitted as a first digital signal and the targeted advertisements are transmitted as a second digital signal.

138. The method of claim 137, wherein the first digital signal is transmitted to the whole group and the second digital signal is transmitted only to a subgroup.

139. The method of claim 137, wherein the first digital signal is transmitted via a digital transport network over a first channel and the second digital signal is transmitted over a second channel.

140. The method of claim 139, wherein the first channel is a digital cable television channel and the second channel is a digital data channel in a cable television system.

141. A method for presenting targeted advertisements in a telecom system, the method comprising:

forming a group for the reception of signals for the telecom system;

forming a plurality of subgroups for the group;

receiving a program stream;

selecting one or more targeted advertisements for the first subgroup; and

transmitting the program stream and the targeted advertisements selected for the first subgroup to the first subgroup, wherein the program stream is transmitted as a streaming video channel over the Internet and the targeted advertisements are transmitted as an audio channel over the Internet.

142. A method for presenting targeted advertisements in a telecom system, the method comprising:

forming a group for the reception of signals for the telecom system;

forming a plurality of subgroups for the group;

receiving a program stream;

selecting one or more targeted advertisements for a first subgroup; and  
transmitting the program stream and the targeted advertisements selected for the first  
subgroup to the first subgroup as streaming video channels over the Internet.

143. The method of claim 117, wherein the signals are cable-based video signals.

144. The method of claim 117, wherein the signals are broadband-based video signals.

145. A method for processing targeted advertisements in a telecom system, the method  
comprising:

forming a group for the reception of signals for the telecom system, wherein the signals  
are Internet-based streaming video signals;

forming a plurality of subgroups for the group;

receiving a program stream;

selecting one or more targeted advertisements for a first subgroup; and

transmitting the program stream and the targeted advertisements selected for the first  
subgroup to the first subgroup.

146. The method of claim 117, wherein the targeted advertisements are inserted into  
the program stream based on the advertisement identifiers.

147. The method of claim 146, wherein the insertion occurs at a centralized point.

148. The method of claim 146, wherein the insertion occurs at a local end.

149. A method for presenting targeted advertisements in a television system, the method comprising:

receiving a group for reception of signals from the television system;

receiving a plurality of subgroups for the group;

selecting a subgroup address to each subgroup;

receiving a program stream;

selecting one or more targeted advertisements for a first subgroup;

selecting an advertisement identifier to each of the selected targeted advertisements;

creating a replacement address each subgroup address and each advertising identifier;

multiplexing the program stream and the selected targeted advertisements at a centralised location to create a first presentation stream; and

transmitting the first presentation stream to the first subgroup.

150. The method of claim 149, further comprising:

selecting one or more targeted advertisements for a second subgroup;

multiplexing the program stream and the selected targeted advertisements for the second subgroup at a centralised location to create a second presentation stream; and

transmitting the second presentation stream to the second subgroup.

151. The method of claim 149, wherein said transmitting to the first subgroup and said transmitting to the second subgroup are performed simultaneously.

152. The method of claim 148, wherein the subgroups are formed by using multicast addresses.

153. A method for presenting targeted advertisements in a telecom system, the method comprising:

forming a group for reception of signals from the telecom system;  
forming a plurality of subgroups for the group, wherein the subgroups are formed by using multicast addresses based on Internet multicast protocol;  
receiving a program stream;  
selecting one or more targeted advertisements for a first subgroup;  
multiplexing the program stream and the selected targeted advertisements at a centralized location to create a first presentation stream; and  
transmitting the first presentation stream to the first subgroup.

154. The method of claim 149, wherein the subgroups are based on address codes.

155. The method of claim 149, wherein the subgroups are formed by transmitting an MPEG signal over a cable television network.

156. The method of claim 149, wherein the subgroups are based on demographic attributes.



157. The method of claim 149, wherein the subgroups are based on psychographic attributes.

158. The method of claim 149, wherein the subgroups are based on product and brand usage attributes.

159. The method of claim 149, wherein said multiplexing is performed in real-time.

160. The method of claim 149, wherein the selected target advertisements are stored temporarily in storage for insertion at a later time.

161. The method of claim 149, wherein the program stream comprises one or more empty segments and during said multiplexing the selected targeted advertisements are inserted in the empty segments.

162. The method of claim 149, wherein the program stream comprises one or more default advertisements and during said multiplexing the default advertisements are substituted with the selected targeted advertisements.

163. The method of claim 149, wherein a program stream is combined with an advertisement stream resulting in a presentation stream, wherein  $p$  is greater than 0.

164. The method of claim 149, wherein the selected targeted advertisements are inserted into the program stream based on the advertisement identifiers.

165. In a telecommunications network, a method for processing targeted advertisements in conjunction with a program content, the method comprising:

identifying a group of clients for reception of at least one program;

dividing a plurality of client subgroups from the group of clients, wherein the plurality of client subgroups consists of at least a first subgroup and a second subgroup which are formed based on Internet browsing protocols;

receiving a first targeted advertisement for the first subgroup;

receiving a second targeted advertisement for the second subgroup;

transmitting the first targeted advertisement to clients of the first subgroup;

transmitting the second targeted advertisement to the clients of the second subgroup;

presenting to the clients of the first subgroup the first targeted advertisement in conjunction with the program; and

presenting to the clients of the second subgroup the second targeted advertisement in conjunction with the program.

166. The method of claim 165, wherein the transmission of the targeted advertisements to the first subgroup is a first multicast transmission and transmission of the targeted advertisements to the second subgroup is a second multicast transmission.

167. The method of claim 165, wherein only those advertisements targeted for the first subgroup are transmitted to and received by the first subgroup and only those advertisements targeted for the second subgroup are transmitted to and received by the second subgroup.

168. The method of claim 165, wherein the presentation of the targeted advertisements occurs before the program, at the beginning of the program, after the program, at the end of the program, or during the program.

169. The method of claim 65, wherein the targeted advertisements presented to the first subgroup and the targeted advertisements presented to the second subgroup are presented to the client members of the respective subgroups at or about the same time within the program sequence.

170. The method of claim 143, wherein each subgroup represents a target market.

171. The method of claim 163, wherein the subgroups are formed based on at least one attribute from a set of attributes consisting of: geographic, demographic, psychographic, and preference attributes.

172. In a telecommunications network a method for presenting targeted advertisements in conjunction with program content, the method comprising:

identifying a group of clients for reception of at least one program;

forming at least a first subgroup and a second subgroup from the group of users, wherein the subgroups are formed based on at least one attribute from a set of attributes consisting of geographic, demographic, psychographic, and preference attributes that are deduced from a subscriber's IP address;

selecting a first targeted advertisement for the first subgroup;

selecting a second targeted advertisement for the second subgroup;

transmitting the first targeted advertisement to clients of the first subgroup;

transmitting the second targeted advertisement to the clients of the second subgroup;

presenting to the clients of the first subgroup the first targeted advertisement in conjunction with the program; and

presenting to the clients of the second subgroup the second targeted advertisement in conjunction with the program.

173. The method of claim 165, wherein the plurality of targeted advertisements are delivered from a plurality of advertisement servers.

174. A method for delivering targeted advertisements within an Internet radio station, the method comprising:

forming a group of subscribers requesting said Internet radio station;

forming a plurality of subgroups of said group of subscribers;

selecting a first targeted advertisement for a first subgroup and selecting a second targeted advertisement for a second subgroup; and

transmitting to the first subgroup, the targeted advertisement selected for the first subgroup, and transmitting to the second subgroup, the targeted advertisement selected for the second subgroup, such that the targeted advertisement selected for the first subgroup is presented to the first subgroup in conjunction with odd Internet radio station and the targeted advertisement selected for the second subgroup is presented to the second subgroup in conjunction with an even Internet radio station.

175. A method of delivering targeted advertisements in conjunction with a program stream, the method comprising:

transmitting a first targeted advertisement to a first subgroup of client receivers using [a] an Internet multicast protocol, wherein each of the first subgroup receivers belongs to a first multicast subgroup; and

transmitting a second targeted advertisement to a second subgroup of client receivers using [a] an Internet multicast protocol, wherein each of the second subgroup receivers belongs to a second multicast subgroup.

176. The method of claim 175, wherein an intermediary receives the program stream, inserts targeted advertisements selected for a subgroup multicast, and multicasts the new presentation stream to the subscribers in that multicast subgroup.

177. The method of claim 175, wherein the targeted advertisements are requested or received from a plurality of different targeted advertisement servers.

178. A method of displaying targeted advertisements in conjunction with a program stream, the method comprising:  
transmitting a first targeted advertisement to a first subgroup of viewer receivers using a first protocol, wherein each of the first subgroup receivers belongs to a first audience subgroup; and  
transmitting a second targeted advertisement to a second subgroup of viewer receivers using a second protocol, wherein each of the second subgroup receivers belongs to a second audience subgroup;  
wherein the program stream, the targeted advertisements, or both are delivered over a DCSIF channel.

179. The method of claim 175, further comprising inserting the targeted advertisements in the program stream at a client side.

180. The method of claim 179, wherein the targeted advertisements are inserted into the program stream before the program is decoded.

181. The method of claim 179, wherein the client side is provided with the insertion type and the identification of the targeted advertisements.

182. In a telecommunications network, a method for presenting targeted advertisements in conjunction with requested content material, the method comprising:  
identifying a group for reception of at least one signal containing content material;

0 forming at least a first subgroup and a second subgroup, wherein members of the first subgroup share a first common IP multicast address and members of the second subgroup share a second common IP multicast address;

receiving a first set of targeted advertisements for the first subgroup;

receiving a second set of targeted advertisements for the second subgroup;

combining the signals combining received material and the first set of targeted advertisements to create a first presentation stream;

combining the signals combining received material and the second set of targeted advertisements to create a second presentation stream;

transmitting the first presentation stream to the first subgroup; and

transmitting the second presentation stream to the second subgroup.

183. The method of claim 182, wherein the transmission of the first stream to the first subgroup is a first multicast transmission and the transmission of the second stream to the second subgroup is a second multicast transmission.

184. The method of claim 182, wherein the said second presentation stream is neither transmitted to nor received by the first subgroup and said first presentation stream is neither transmitted to nor received by the second subgroup.

185. The method of claim 182, wherein said transmitting to the first subgroup and said transmitting to the second subgroup are performed at about the same time.

185. The method of claim 182, wherein said identifying occurs at a common location.

186. The method of claim 182, wherein said identifying occurs at separate locations.

187. The method of claim 182, wherein said identifying includes identifying the targeted advertisement such that the targeted advertisement or segment of the targeted advertisement with respect to the content material is not from a group containing one or more of the content material, either the content material, or during and within the content material.

188. The method of claim 182, wherein the first set of targeted advertisements and the second set of targeted advertisements are combined with the content material at or about the same location within the content material segment.

189. The method of claim 182, wherein each subgroup represents a target market.

190. The method of claim 182, wherein the subgroups are formed based on at least one attribute from a set of attributes containing one or more of age, gender, race, ethnicity, and profession attributes.

191. In a telecommunications network, a method for presenting targeted advertisements in conjunction with requested content material, the method comprising:  
identifying a group for selection of at least one signal containing content material;



forming at least a first subgroup and a second subgroup, wherein the subgroups are formed based on at least one attribute from a set of attributes comprising of geographic, demographic, psychographic, and purchase attributes derived from a subscriber's IP address;

creating a first set of targeted advertisements for the first subgroup;

creating a second set of targeted advertisements for the second subgroup;

combining the original contenting content material and the first set of targeted advertisements to form a first presentation stream;

combining the original contenting content material and the second set of targeted advertisements to create a second presentation stream;

transmitting the first presentation stream to the first subgroup; and

transmitting the second presentation stream to the second subgroup.

193. The method of claim 182, wherein the content material comprises one or more digital advertisements and sharing said combining the digital advertisements are associated with the targeted advertisements.

194. The method of claim 182, wherein the plurality of selected targeted advertisements are delivered from a plurality of advertisement servers.

195. The method of claim 182, wherein the subgroups are disjoint and contain no members in common.

196. In a telecommunications network, a method for presenting targeted advertisements in conjunction with requested content material, the method comprising:

- identifying a group for reception of at least one signal containing content material, wherein the signal containing content material is an Internet radio station;
- forming at least a first subgroup and a second subgroup;
- creating a first set of targeted advertisements for the first subgroup;
- creating a second set of targeted advertisements for the second subgroup;
- combining the signal containing content material and the first set of targeted advertisements to form a first presentation stream;
- combining the signal containing content material and the second set of targeted advertisements to create a second presentation stream;
- transmitting the first presentation stream to the first subgroup; and
- transmitting the second presentation stream to the second subgroup.

197. A method for presenting targeted advertisements in a telecommunications system, the method comprising:

- forming a first presentation stream with advertisements targeted to a first subgroup;
  - forming a second presentation stream with advertisements targeted to a second subgroup,
- wherein the subgroups are formed using Internet distribution protocol;
- transmitting the first stream to the first subgroup; and
  - transmitting the second stream to the second subgroup.